

* SWBAT define power and apply it to climbing stairs

Sep 6-2:31 PM

Welcome!!!

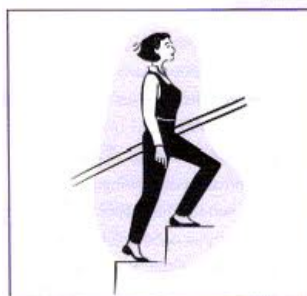
SECA Physics
Monday 18 November 2013

Centering...

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* Pick up:

- slip of paper (for later)
- notebook (if you use one)



Opening Questions:

On your index card: write at least 2 meanings of the word "power".

Sep 7-7:04 AM

Power

STRONG

LEGAL: MAKE PEOPLE

HARD WORKING

FORCE PEOPLE

ELECTRICITY
LIGHTS ONSMARTS/
THINKING

POLITICAL

CARS/
ENGINES EMOTIONAL
CONNECTION/
INFLUENCE

↳ INFLUENCE

WILL

POWER IS WORK OVER TIME.

$$P = \frac{W}{t}$$

Nov 30-10:05 AM

Force: A PUSH OR A PULL
NEWTONS

Work: A FORCE CAUSES A DISPLACEMENT
JOULES

$$1 \text{ WATT} = \frac{1 \text{ J}}{1 \text{ s}}$$

Power: WORK OVER TIME

$$\text{Power} = \frac{\text{WORK}}{\text{TIME}} = \frac{\text{FORCE} \times \text{DISTANCE}}{\text{TIME}}$$

Dec 2-7:51 AM

Who has the most power????

- * Partner up: Runner and Timer/recorder
- * Only need to measure 4 things
- * Rest is "plug and chug" -- fill in all the blanks

$$? \text{ hp} = 389.2 \text{ W} \cdot \frac{1 \text{ hp}}{746 \text{ W}} = .52 \text{ hp}$$

WALK	RUN
242W	506W
389W	1133W
435W	

What'd we find???

Dec 1-7:31 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. Power is
 - A. a push or a pull
 - B. when a force causes a displacement
 - C. work over time
2. What was the general range of power results for our experiment?
200 - 1200W
3. Which is bigger 1 Watt or 1 horsepower?

Dec 2-7:55 AM